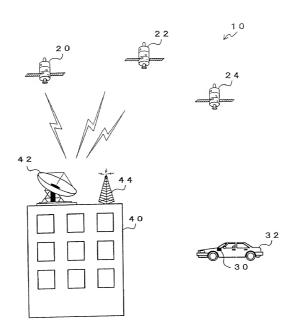
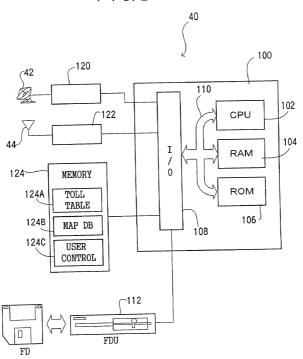
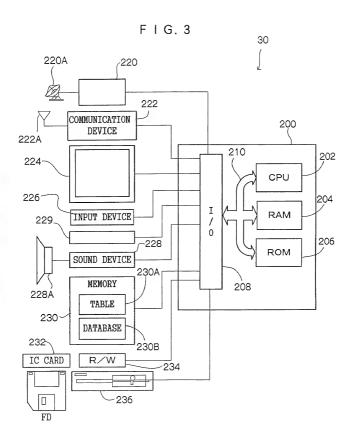
F I G. 1

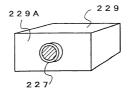


F I G. 2

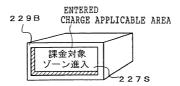




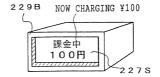
## FIG.4 A



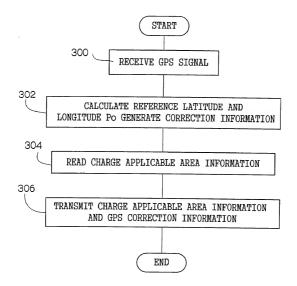
## FIG.4 B

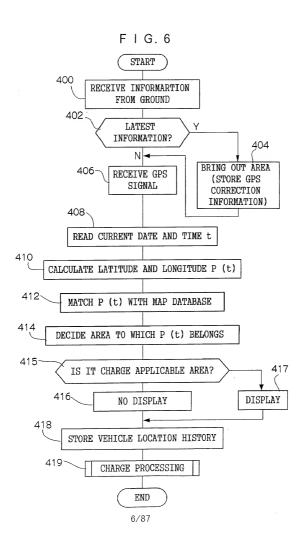


## FIG.4 C

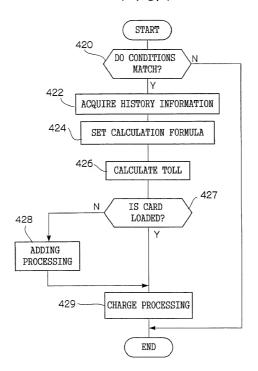


F I G. 5

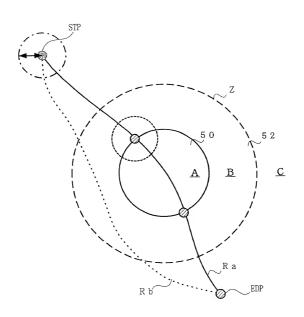




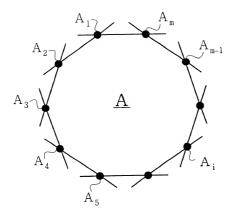
F I G. 7



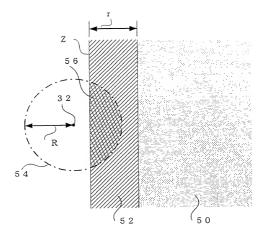
F I G. 8

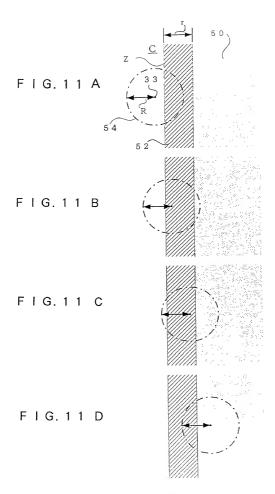


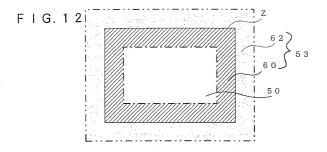
F I G. 9

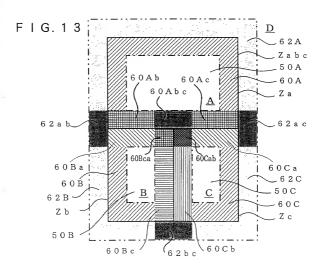


F I G. 10

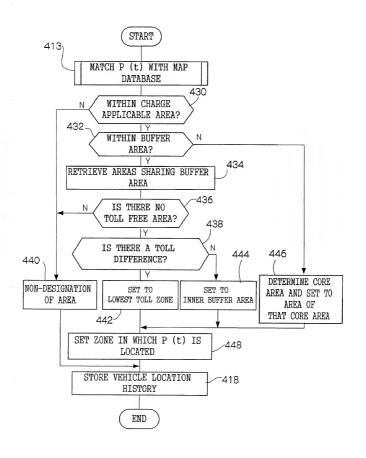




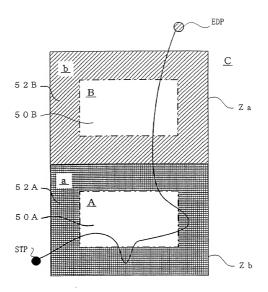




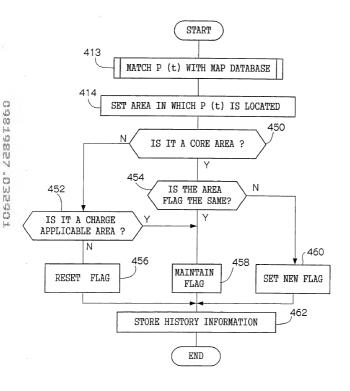
F I G. 14



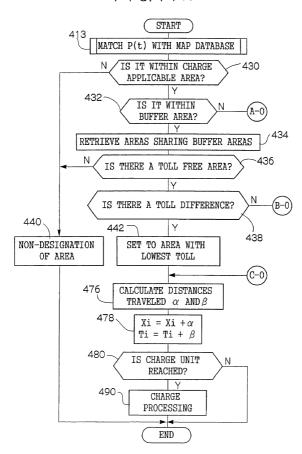
F I G. 15



F I G. 16

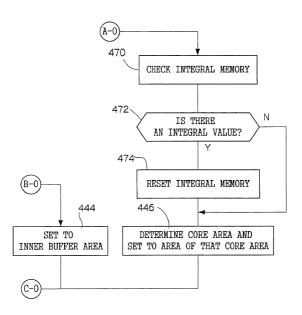


## F I G. 17A

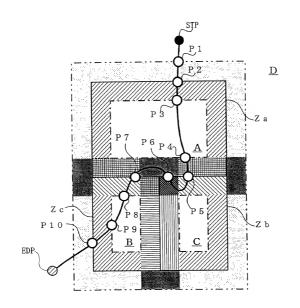


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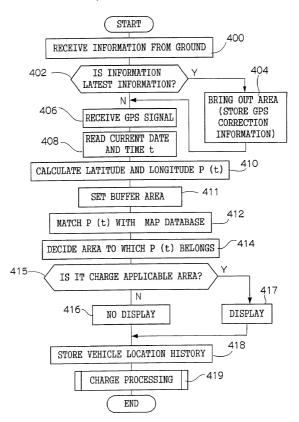
F I G. 17B



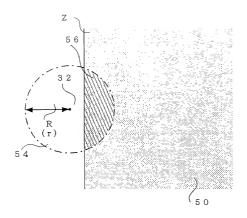
F I G. 18

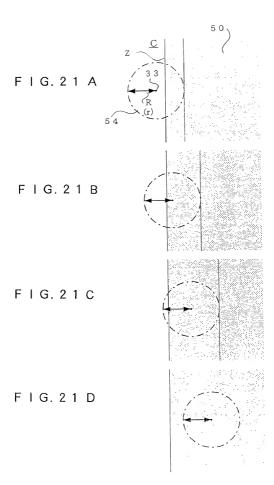


F I G. 19



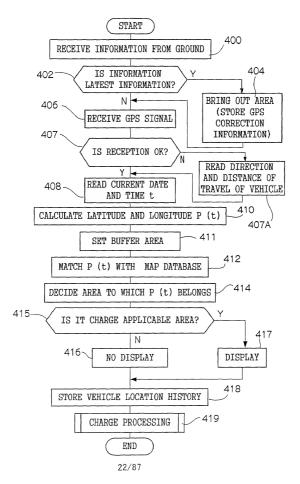
F I G. 20



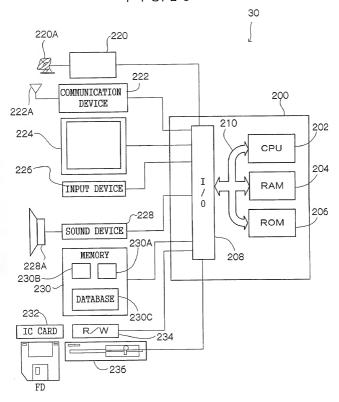


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F I G. 22

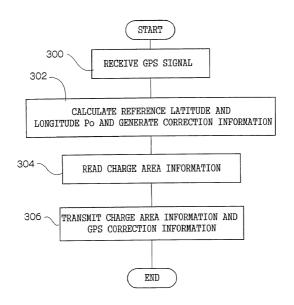


F I G. 23

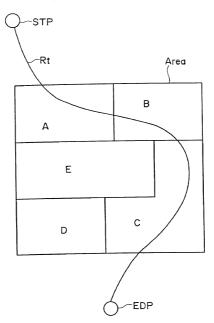


COMPONEY, CHROCK

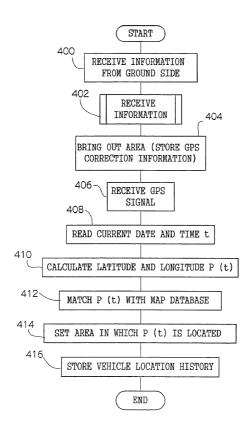
F I G. 24



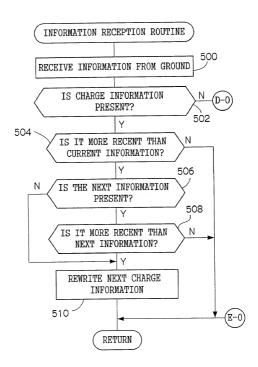
F I G. 25



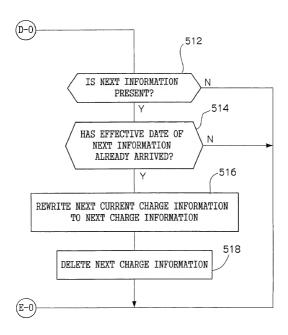
F I G. 26



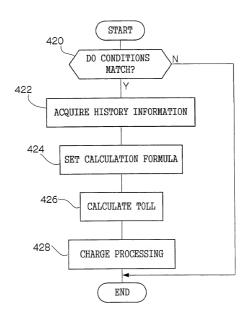
F I G. 27 A

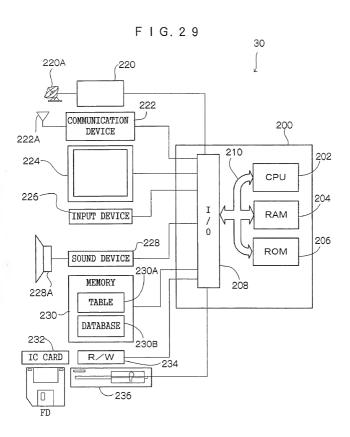


F I G. 27 B

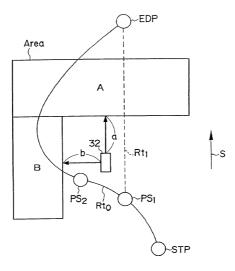


F I G. 28

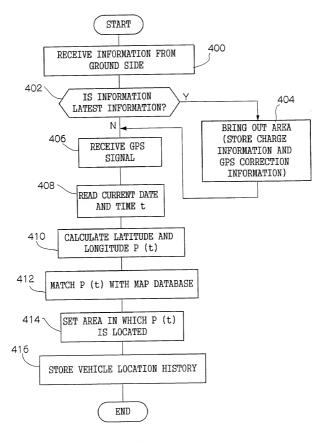




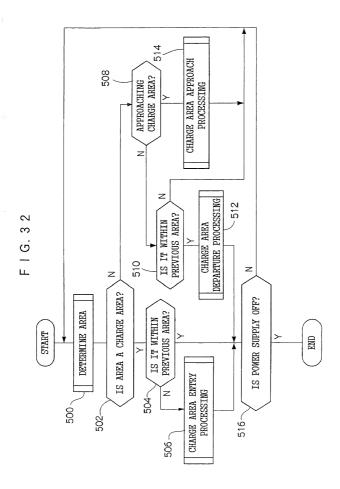
F I G. 3 0



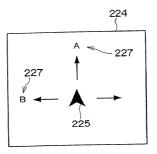
F I G. 31



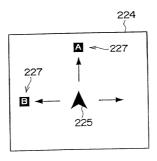
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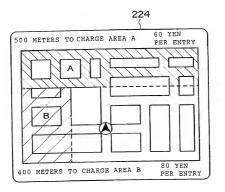
F I G. 3 3 A



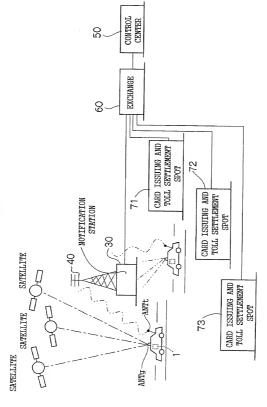
F I G. 3 3 B



F I G. 34

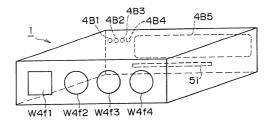


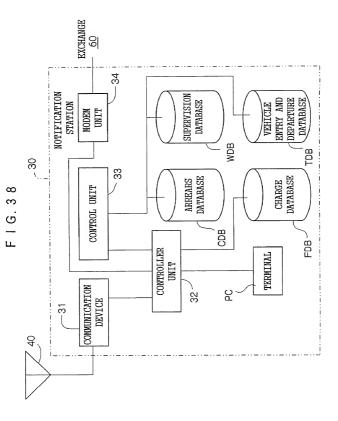
F I G. 35



F I G. 36 -ANTa 21 25 GPS RECEIVER -26 24-DISPLAY PIEZOELECTRIC ALTITUE BOARD VIBRATING GYRO SENSOR DEVICE 28 22 RETRIEVAL 20 ~ GPS INFORMATION PROCESSING ECU ENGINE 4B2 <sup>4B3</sup> 4B4 4f4 VEHICLE SPEED MAP DATABASE 4B5 4B1 PULSES OPERATION. DISPLAY DISPLAY BOARD 19 DEVICE 4f11 4f3 EXTERNAL CHARGE CONTROL ECU INTERFACE INTERRUPTION PHOTOCOUPLER INTERRUPTION CARD READER VOICE 20 SYNTHESIZING CARD UNIT 10 CRD VOICE VOICE RECOGNITION VOICE MODEM BAND UNIT 11 SIGNAL **↑**VOICE EXTENTION TELEPHONE SWITCH SW SERIAL UNIT SERIAL VOICE ANŤt +B MIC VEHICLE SPEED PSC---PULSES IN-VEHICLE SP POWER SUPPLY AUDIO CIRCUIT IN-VEHICLE SPEAKER Si INPUT I/F

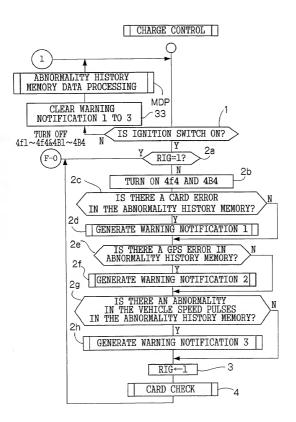
F | G. 37



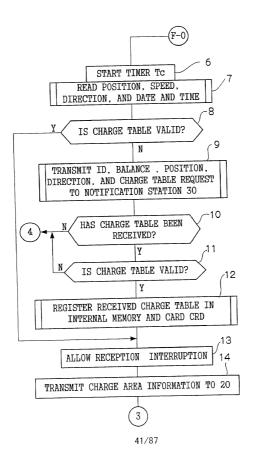


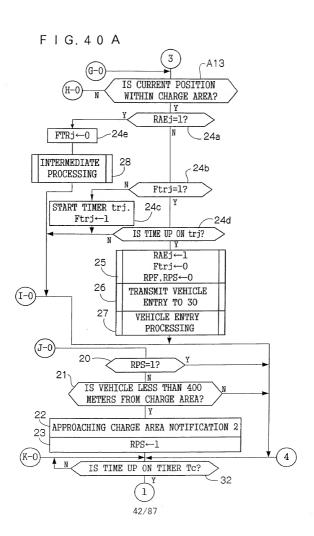
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F I G. 3 9 A

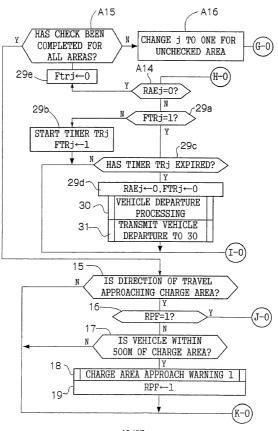


F I G. 39 B



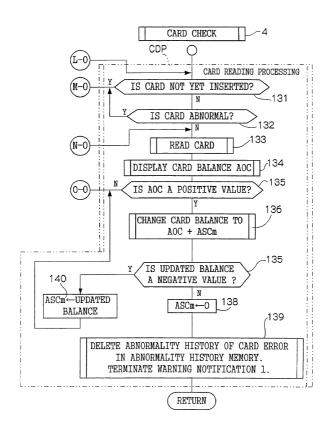


F I G. 4 0 B

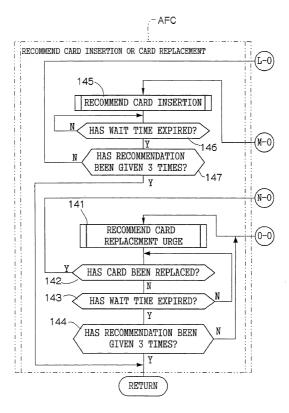


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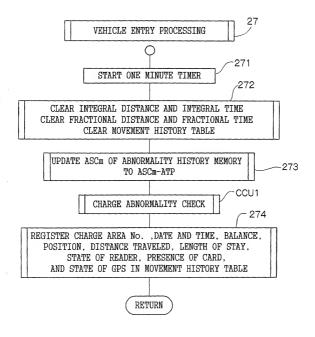
F I G. 41A

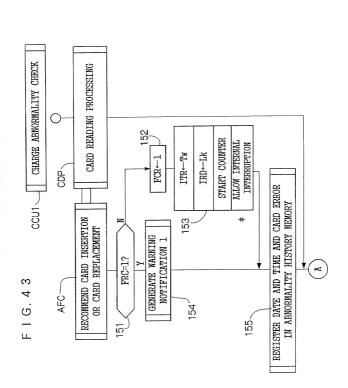


F I G. 41B

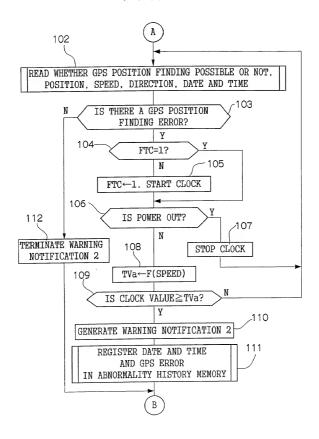


F I G. 42

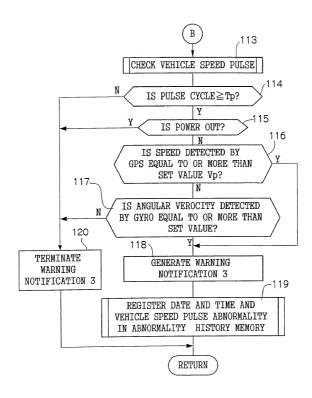




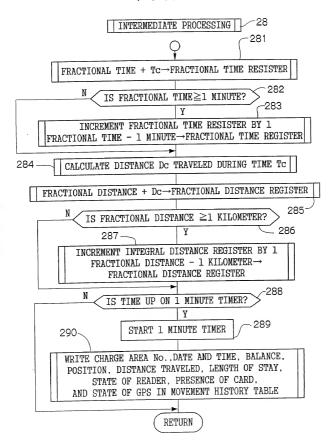
F I G. 44



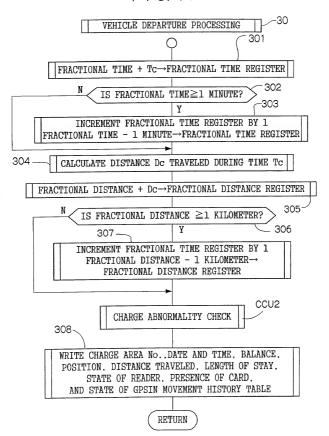
F I G. 45

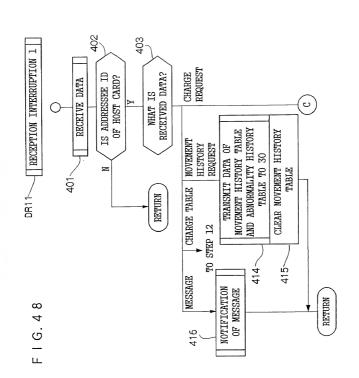


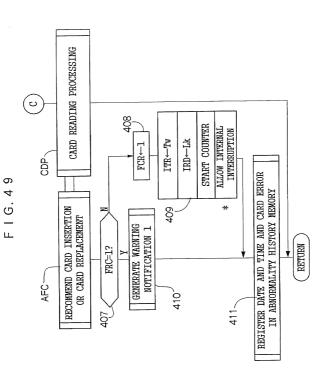
F I G. 46



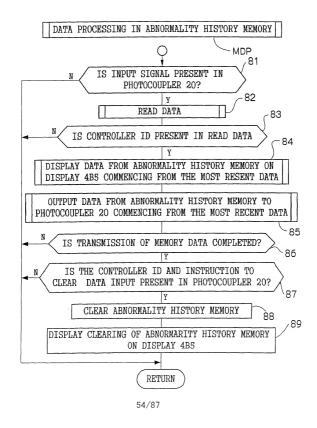
F I G. 47



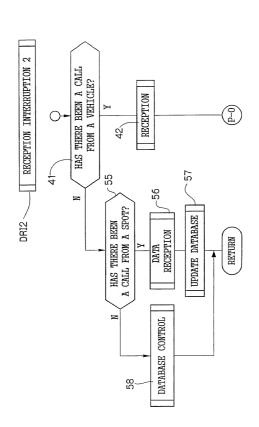


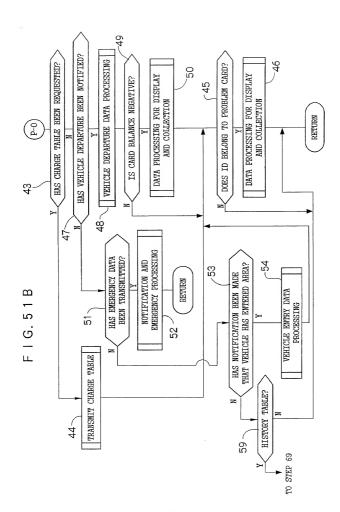


F I G. 50

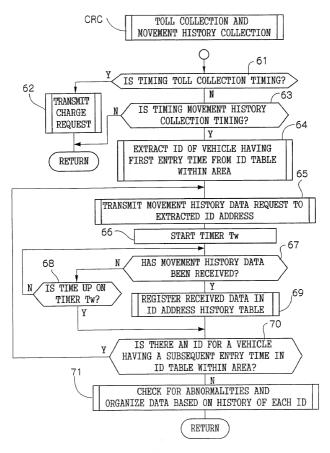


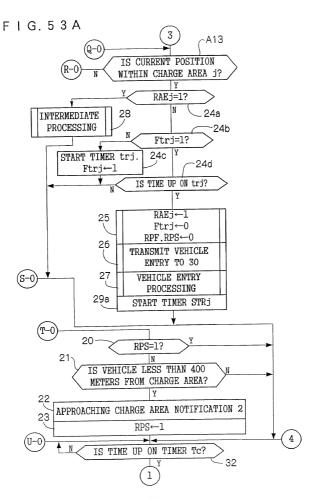
F I G. 5 1 A





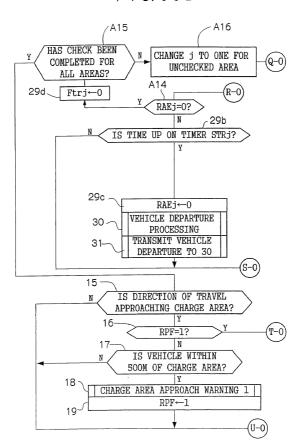
F I G. 52

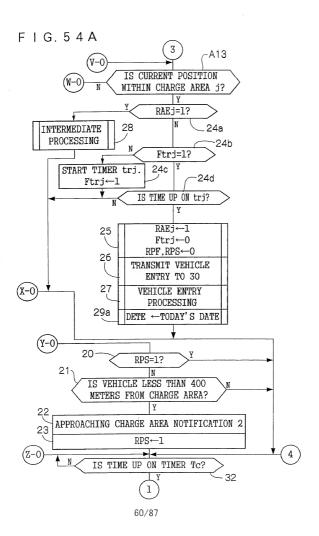




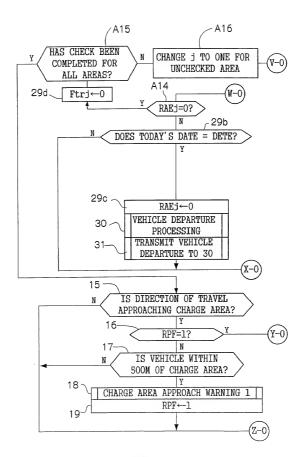
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F I G. 5 3 B

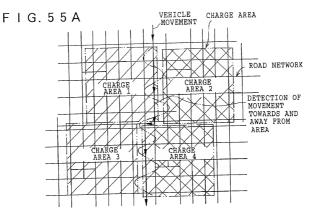


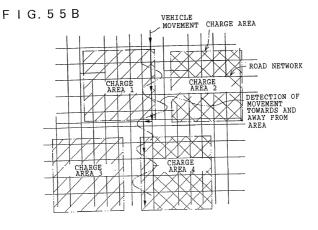


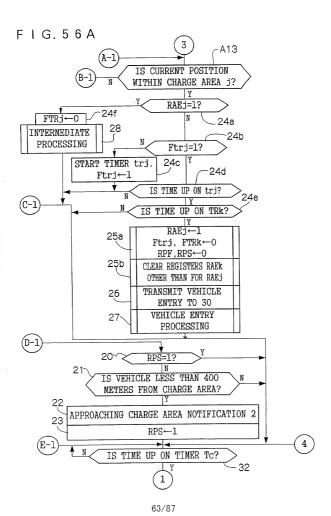
F I G. 54B



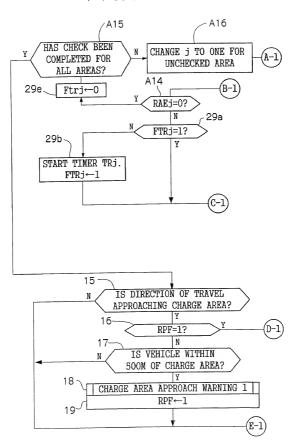
61/87



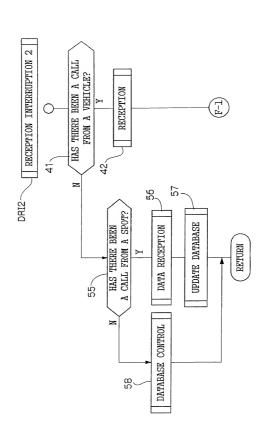


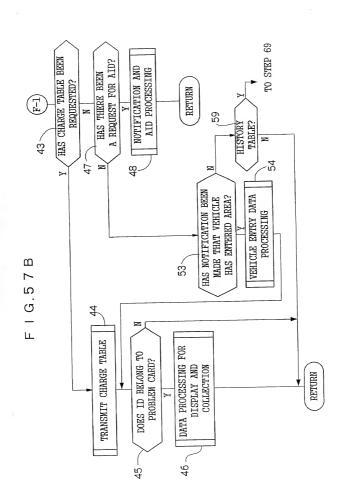


F I G. 5 6 B

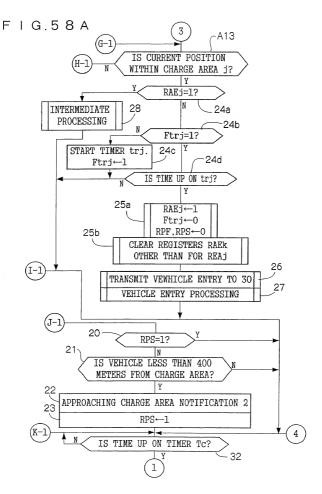


F I G.57 A



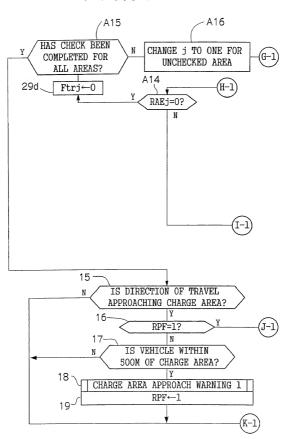


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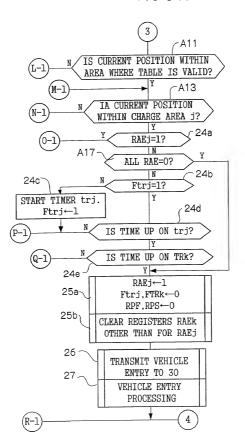


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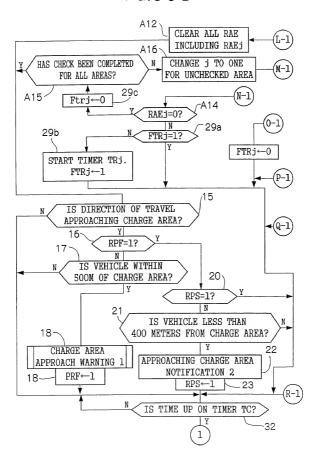
F | G.58B



## F I G.59A

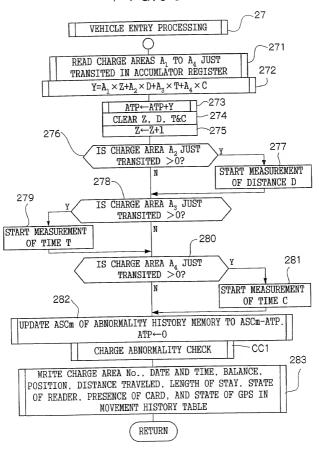


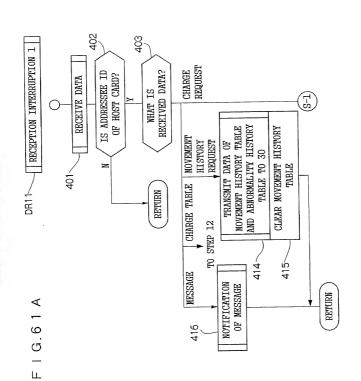
F I G.59B

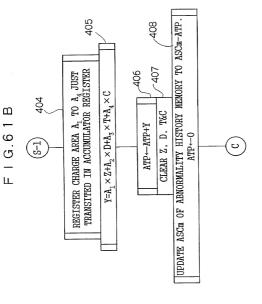


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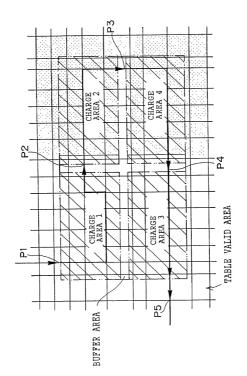
F I G 6 0



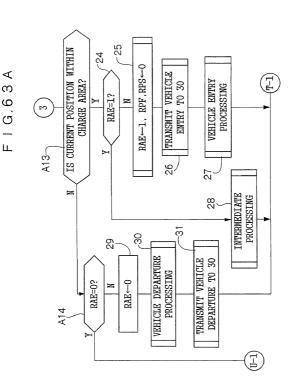


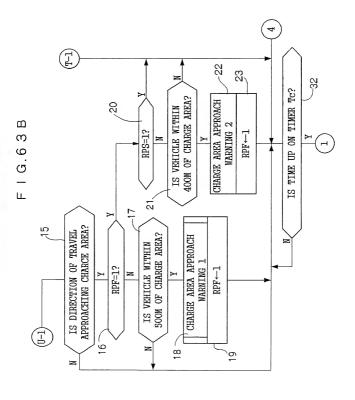


F I G.62

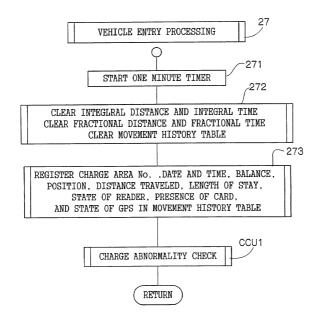


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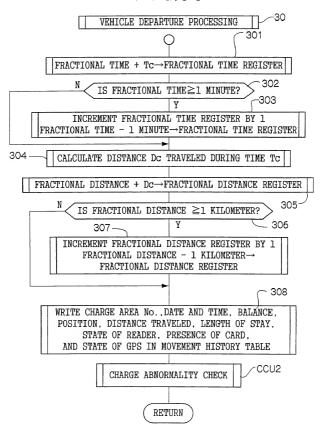


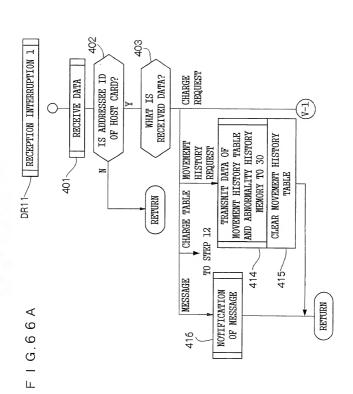


F I G.64

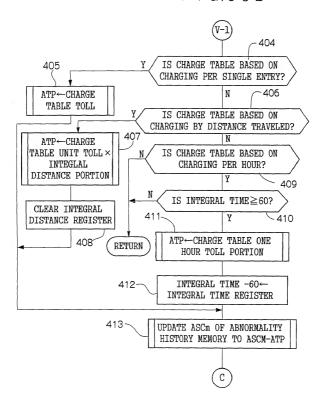


## F I G.65

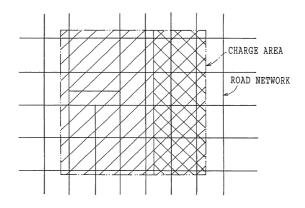




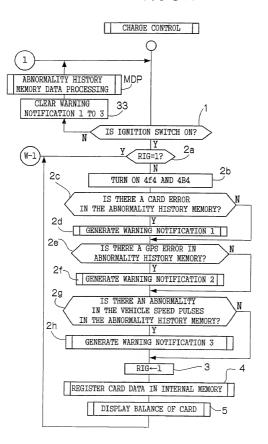
## F I G 66B



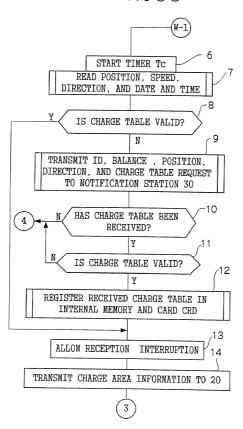
F | G.67



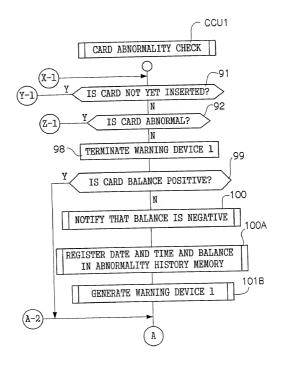
F I G.68A



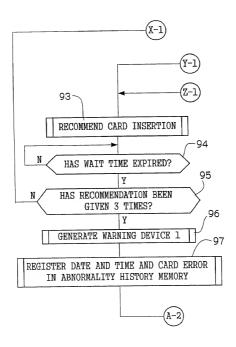
## F | G.68B

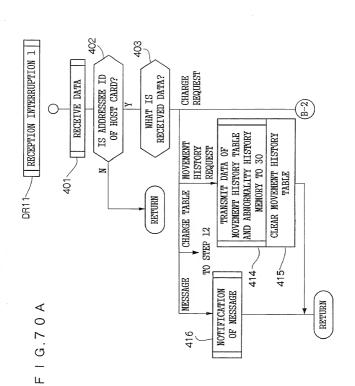


F I G.69A



F | G.69B





## F | G.70B

